

JUNCTION INDUSTRIAL PARK

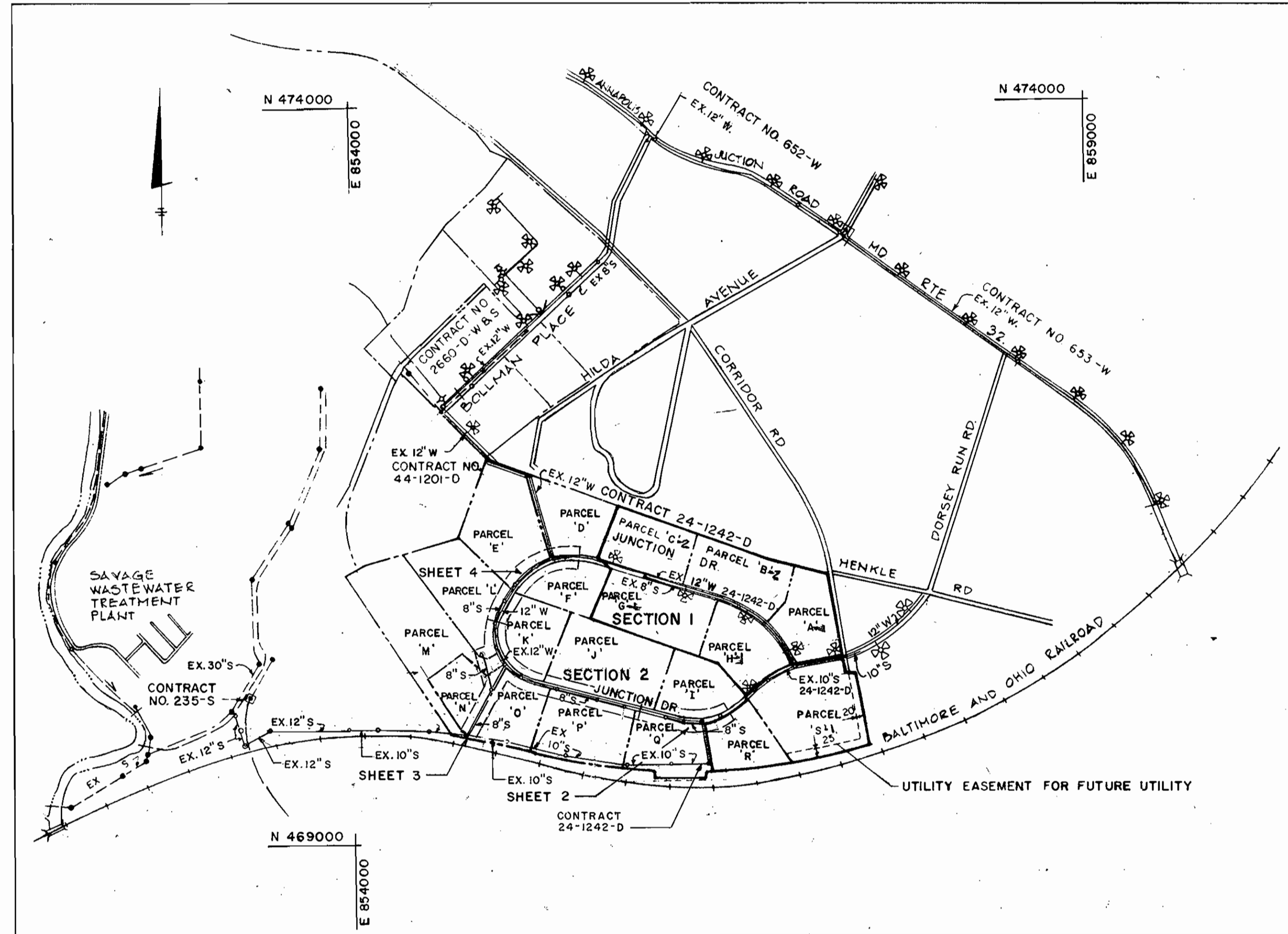
SECTION 2

(PARCELS D,E,F, I THROUGH Q)

6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITIES COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES = 561-2585
 - BALTIMORE GAS & ELECTRIC CO UNDER GROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9013
 - MISS UTILITY - 1-559-0100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 922-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED. CLASS 52.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS.
- ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G 5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- BID LINE TO BE EXISTING GROUND EXCEPT AS NOTED.
- EXCAVATING AND BACKFILLING OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE UPON COMPLETION OF THE PROJECT.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED.
- SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IX, STANDARD SPECIFICATIONS AND SITE PLAN F-26-126.



LOCATION PLAN

SCALE: 1" = 600'

WATER HOUSE CONNECTION	11
SEWER HOUSE CONNECTION	8
LOTS & TYPE	11 OFFICE / WAREHOUSE
	1 STORM WATER MANAGEMENT
DRAINAGE / TREATMENT	
PLANT BASIN	SAVAGE (LITTLE PATUXENT RIVER)

WATER AND SEWER CODE
(COUNTY USE)
SEWER NO. 4020000
WATER NO. C04

INDEX OF DRAWINGS

SHEET NO	DESCRIPTION
1	LOCATION PLAN
2	PLAN AND PROFILE WATER AND SEWER MAINS STA. 18+12 TO STA. 27+06.94
3	PLAN AND PROFILE WATER AND SEWER MAINS STA. 27+06.94 TO STA. 38+35.53 AND ALONG UTILITY EASEMENTS
4	PLAN AND PROFILE WATER AND SEWER MAINS STA. 38+35.53 TO STA. 45+00
5	PLAN AND PROFILE WATER AND SEWER MAINS STA. 0+00 TO STA. 7+54.07

QUANTITIES

ITEM	PROPOSED	AS BUILT	MATERIAL SUPPLIES
MANHOLE FRAME AND COVER	14 EA.	14 EA.	B+C UTILITY
8" WALL MANHOLE	135 V.F.		PRE-CAST CONCRETE ATLANTIC CONCRETE
12" WALL MANHOLE	8 V.F.	"	"
12" WATER MAIN	3272 L.F.	3280 L.F.	ATLANTIC STATES PIPE 60, 24, 33
8" WATER MAIN	447 L.F.	465 L.F.	"
6" WATER MAIN	240 L.F.	226 L.F.	"
FIRE HYDRANTS	10 EA.	10 EA.	MUELLER
8" SEWER MAINS	2820 L.F.	2828 L.F.	CERTAINTED SDR-35
6" SEWER MAINS	360 L.F.	365 L.F.	"
8" VALVE	11 EA.	11 EA.	MUELLER
12" VALVE	3 EA.	3 EA.	"
12" x 8" TAPPING SLEEVE & VALVE	1 EA.	1 EA.	"
10" SEWER MAIN	100 L.F.	100 L.F.	CERTAINTED SDR-35
6" VALVE	9 EA.	9 EA.	MUELLER

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved: *Stephen L. Hulse* 4/17/86
Howard S.C.D.

Reviewed for HOWARD S.C.D. Name
and meets Technical Requirements
Joseph M. Stahn Date 6-15-86
Signature
U.S. Soil Conservation Service

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Joseph F. Nunn 8-15-86
DIRECTOR OF PUBLIC WORKS - DATE

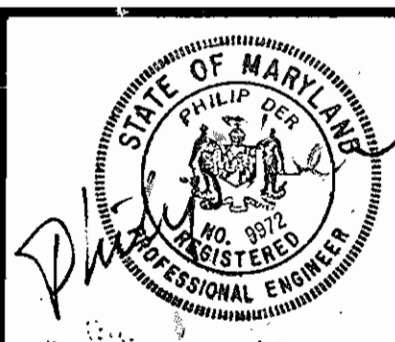
Joseph M. Stahn 8-25-86
CHIEF BUREAU OF ENGINEERING - DATE

Robert Wood 10/23/86
CHIEF BUREAU OF UTILITIES - DATE

Joseph M. Stahn 8/27/86
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITNEY BAILEY CONSULTING ENGINEERS
1850 York Road
Timonium, Md. 21093
301-252-6060

JOX MAGNANI



DES. P.D.	
DRN. G.G.	
CHK. P.D.	
DATE 1/31/86	
ART. 1	REVISED QUANTITIES (BOX) & SHEET NO. 12-30-86
BY NO.	REVISION

LOCATION PLAN

CONTRACT NO. 24-1489-D

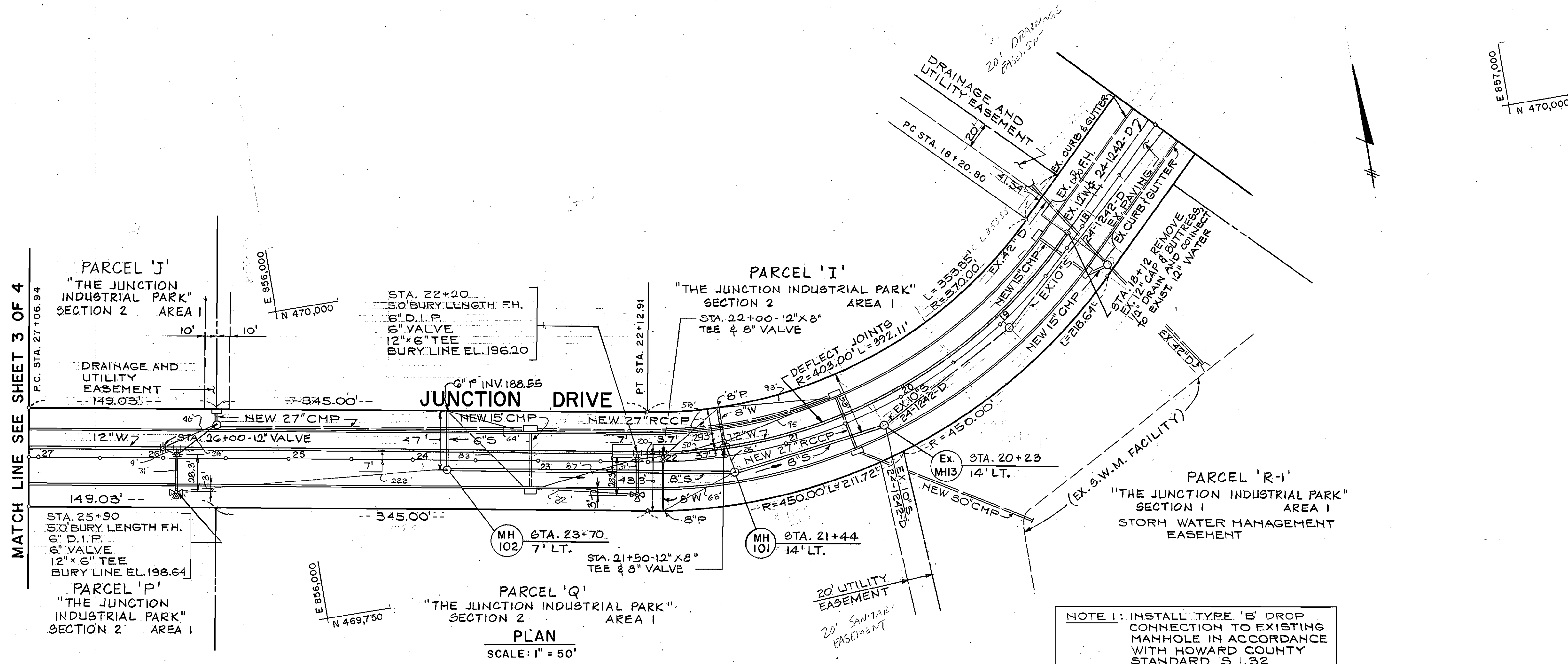
600' SCALE MAP NO. 48 BLOCK NO. 19

JUNCTION INDUSTRIAL PARK SECTION 2
PARCELS D,E,F, I THROUGH Q
ELECTION DISTRICT GILFORD NO. 6

SCALE AS SHOWN

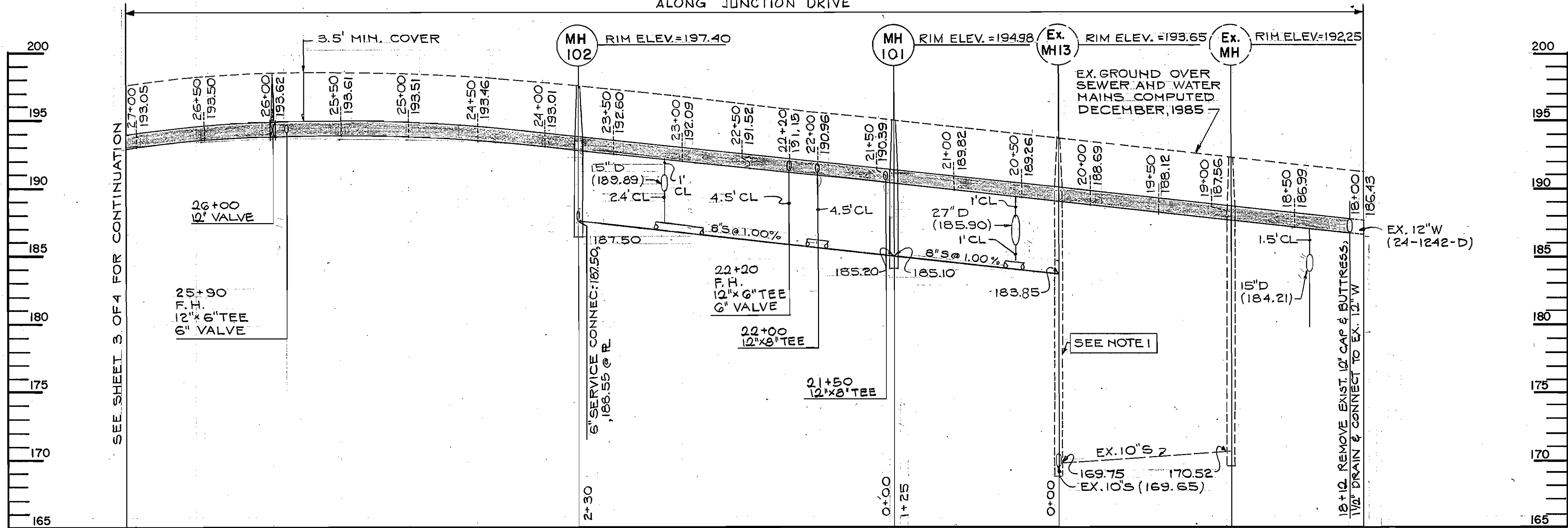
SHEET 1 OF 5

MATCH LINE SEE SHEET 3 OF 4



NOTE 1: INSTALL TYPE 'B' DROP CONNECTION TO EXISTING MANHOLE IN ACCORDANCE WITH HOWARD COUNTY STANDARD S 1.32

ALONG JUNCTION DRIVE



PROFILE
SCALE: HORZ. 1" = 50'
VERT. 1" = 5'

REV. - Changed invert of Ex. MH 13; 10-3-86

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *Robert W. Wood* 8-26-86
Chief - Bureau of Utilities

Chief - Bureau of Engineering: *William E. Pugh* 8-25-86
Chief - Land Development Division

HITNEY
AILEY
OX
MAGNANI

CONSULTING ENGINEERS
1850 York Road
Timonium Md. 21093
301-252-6060



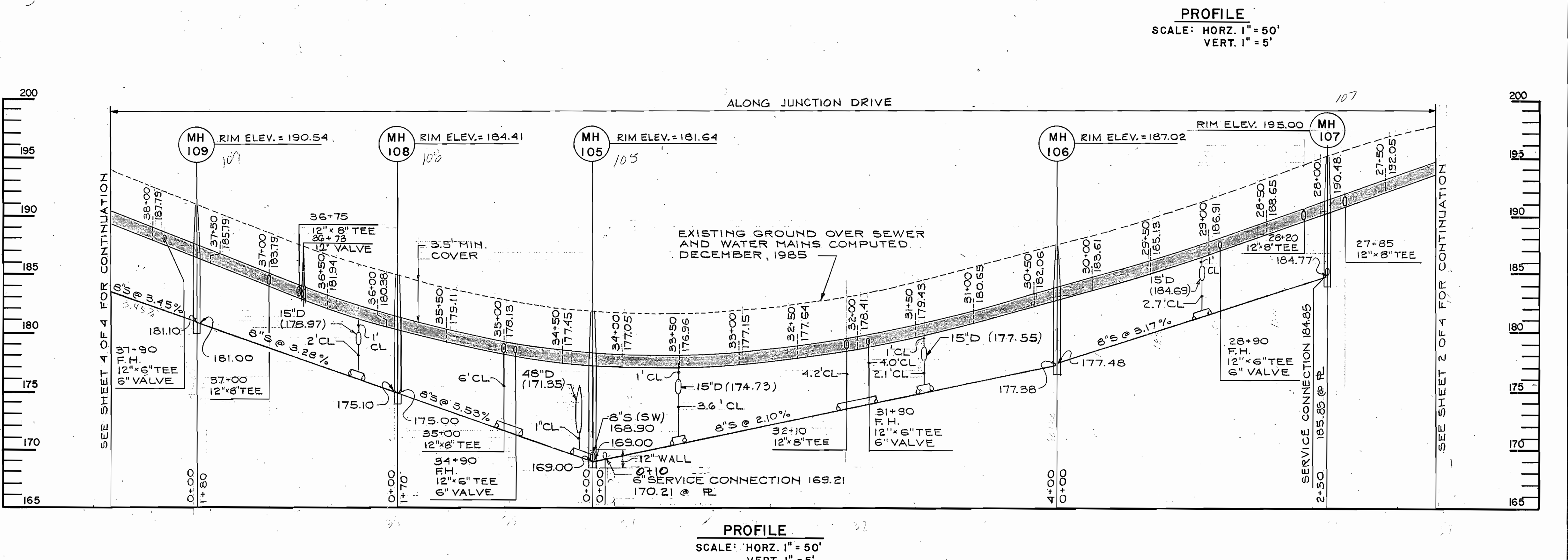
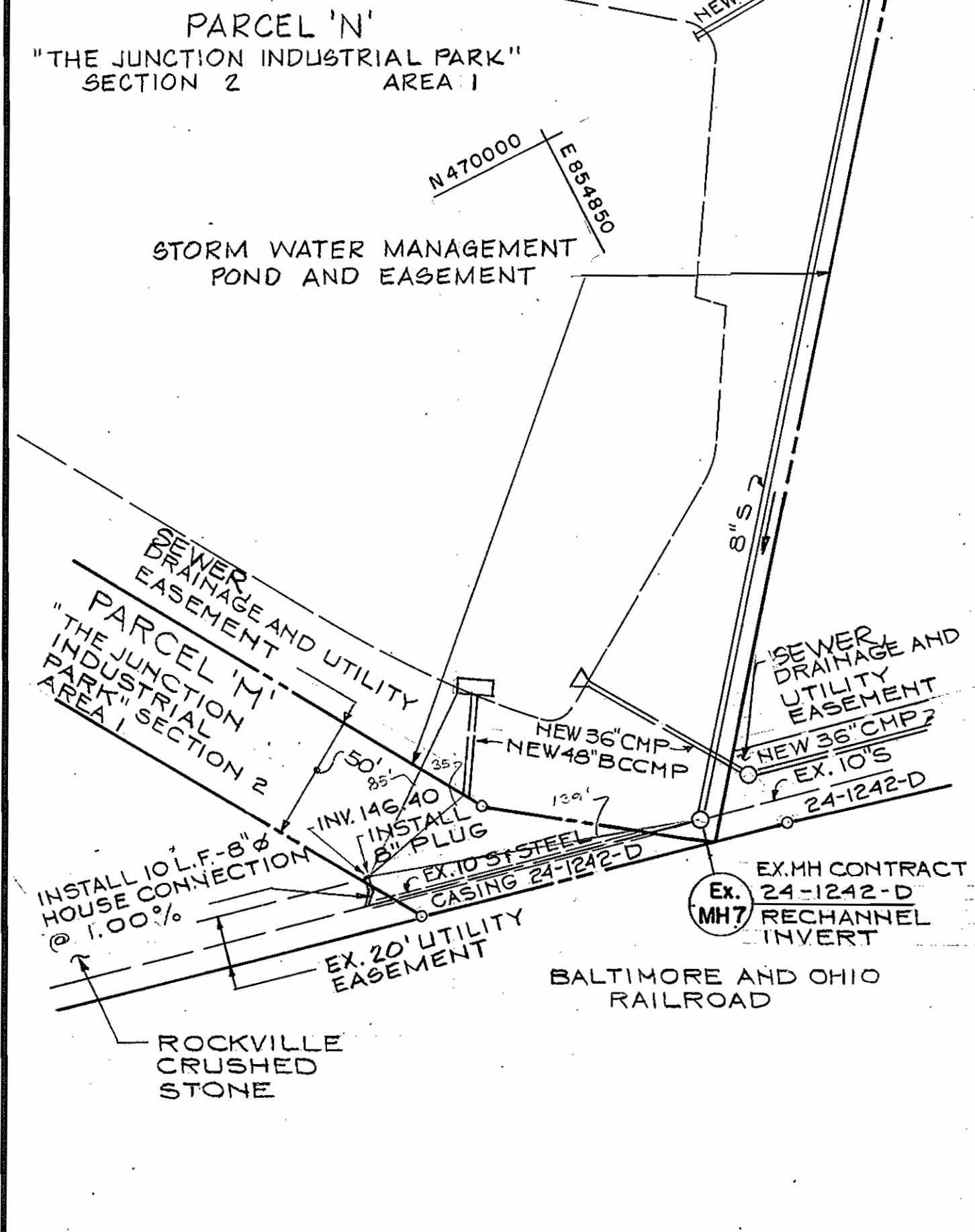
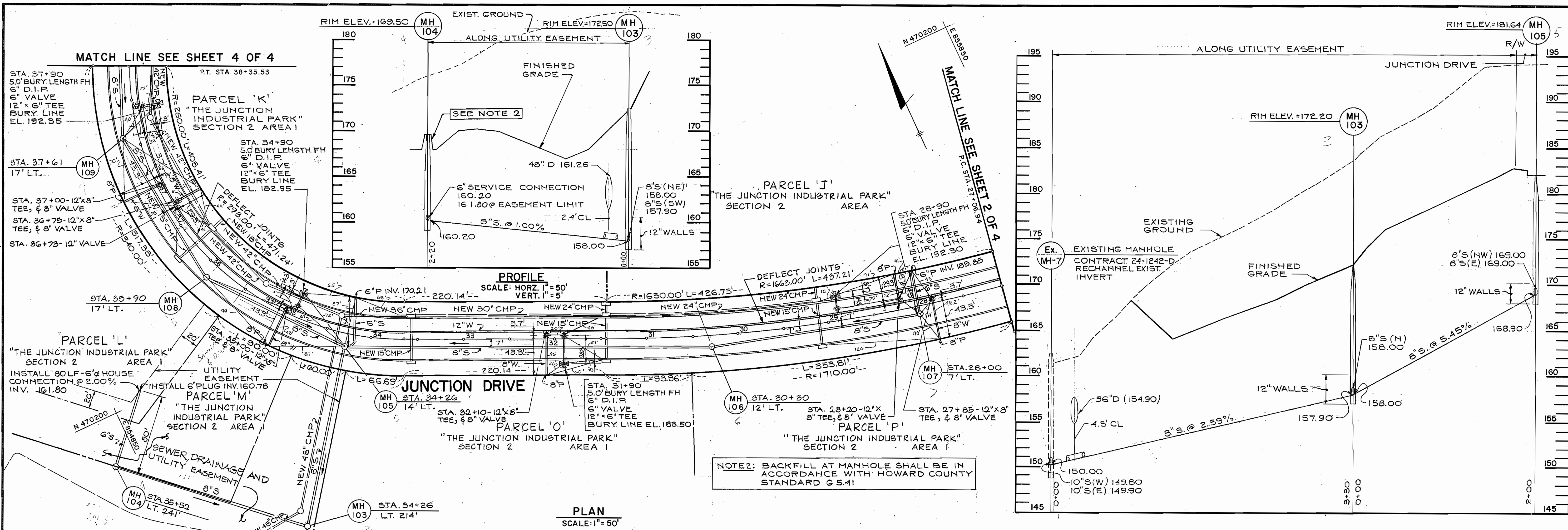
DES: P.D.	
DRN: G.G.	
CHK: P.D.	
DATE: 1/31/86	
BY: NO.	
REVISION	
DATE	

PLAN AND PROFILE
WATER AND SEWER MAINS
STA. 18+12 TO STA. 27+06.94
CONTRACT NO. 24-1489-D

600' SCALE MAP NO. 48 BLOCK NO. 19

JUNCTION INDUSTRIAL PARK SECTION 2
PARCELS D, E, F, I THROUGH Q
ELECTION DISTRICT GILFORD NO. 6

SCALE AS SHOWN
SHEET 2 OF 5



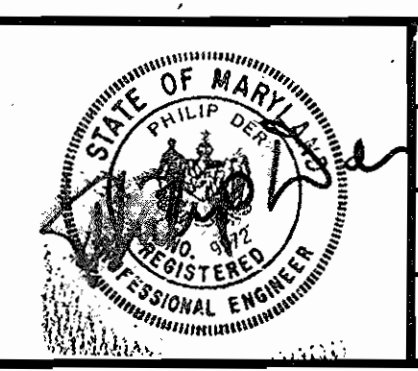
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert W. Wood 8-25-86
DIRECTOR OF PUBLIC WORKS DATE

Robert W. Wood 6/23/86
CHIEF-BUREAU OF UTILITIES DATE

WHITNEY
AILEY
OX
MAGNANI

CONSULTING ENGINEERS
1850 York Road
Timonium Md. 21093
301-252-6060



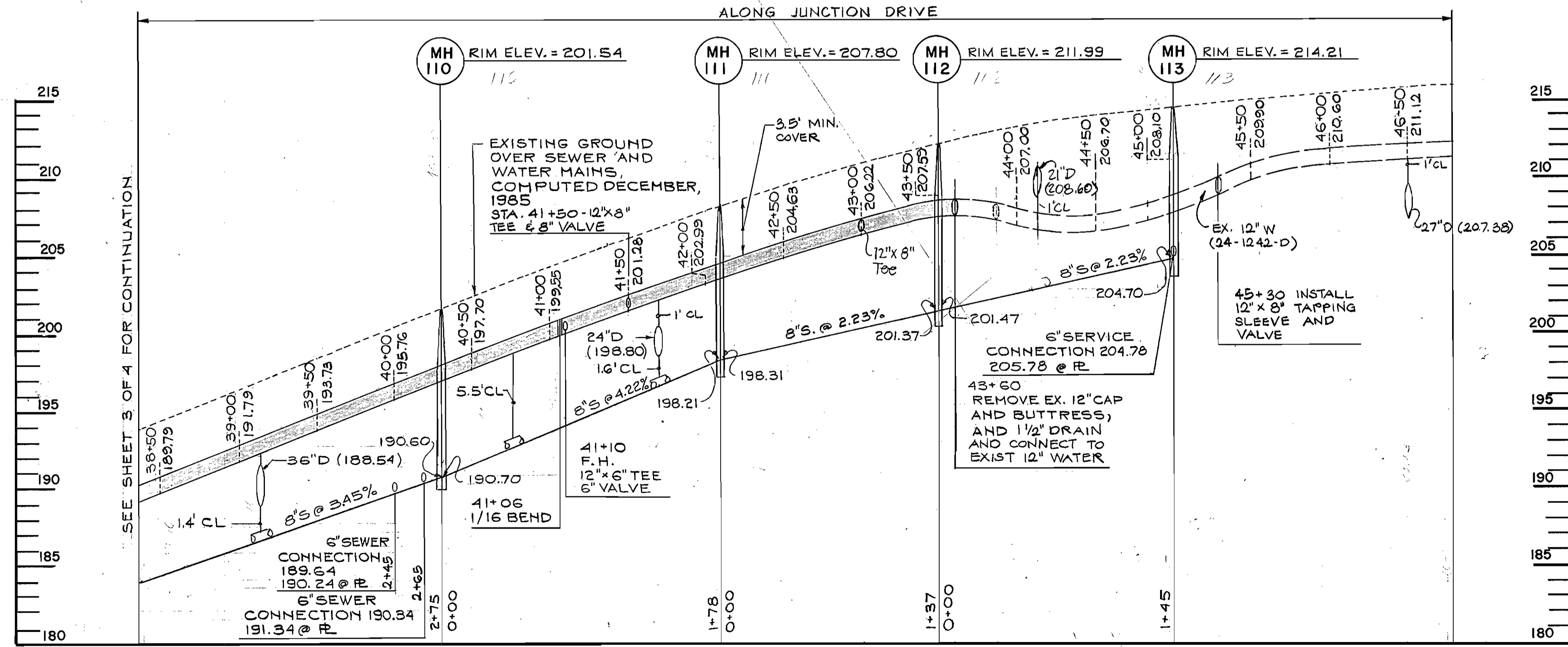
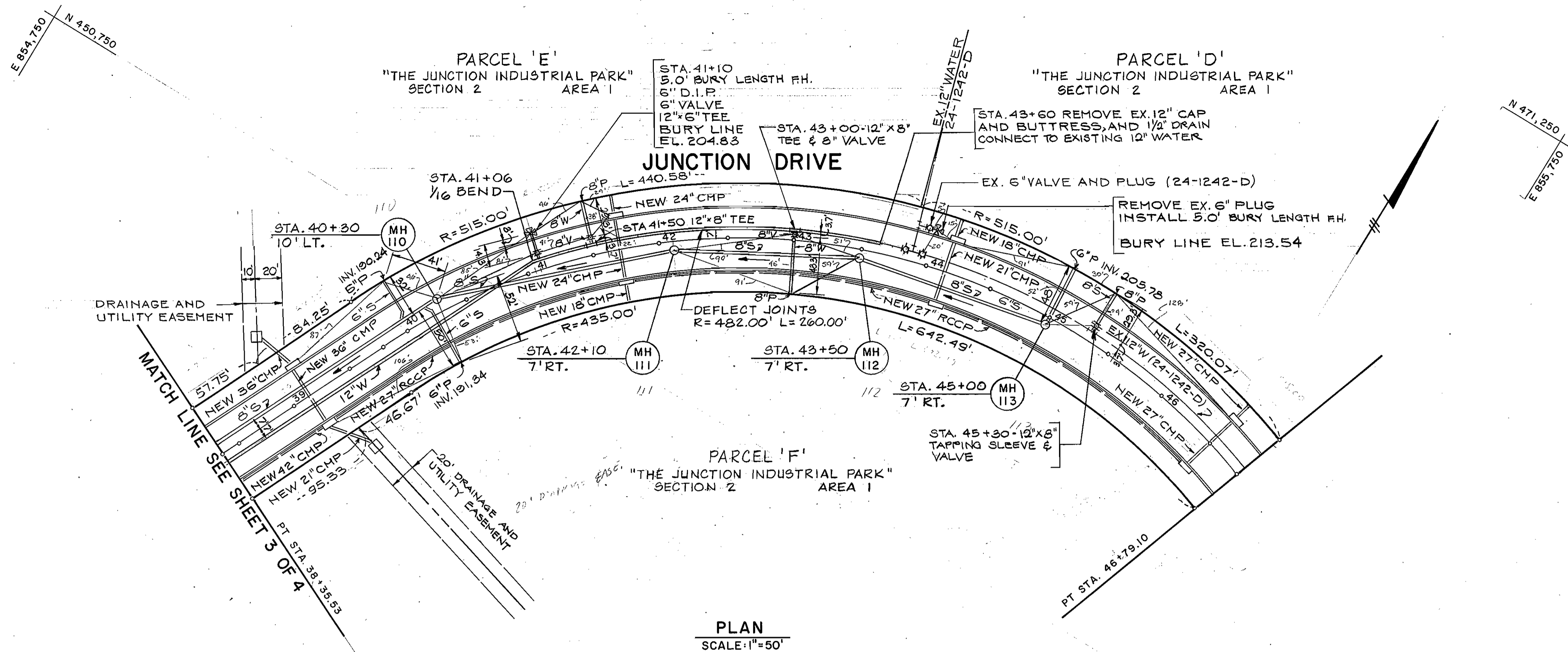
DES: P.D.	
DRN: G.G.	
CHK: P.D.	
DATE: 1/31/86	BY NO. REVISION

PLAN AND PROFILE
WATER AND SEWER MAINS
STA. 27+06.94 TO STA. 38+35.53
CONTRACT NO. 24-1489-D

600' SCALE MAP NO. 48 BLOCK NO. 19

JUNCTION INDUSTRIAL PARK SECTION 2
PARCELS D, E, F, I THROUGH Q
ELECTION DISTRICT GILFORD NO. 6

SCALE AS SHOWN
SHEET 3 OF 5



Rev. : Added 12"x8" T : 10-3-86

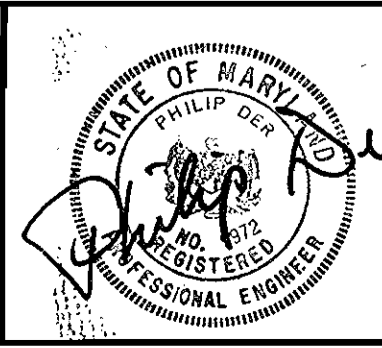
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood 8-25-86
DIRECTOR OF PUBLIC WORKS DATE

Robert Wood 8-25-86
CHIEF - BUREAU OF UTILITIES DATE

HITNEY
AILEY
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1850 York Road
Timonium Md. 21093
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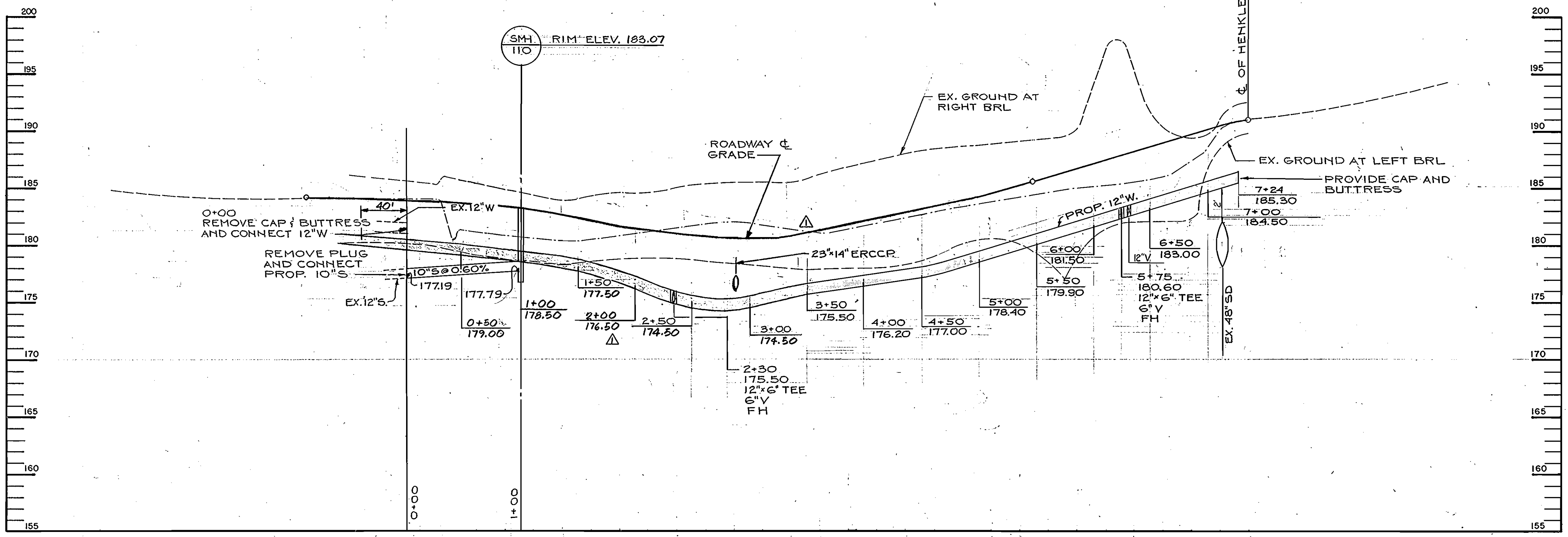
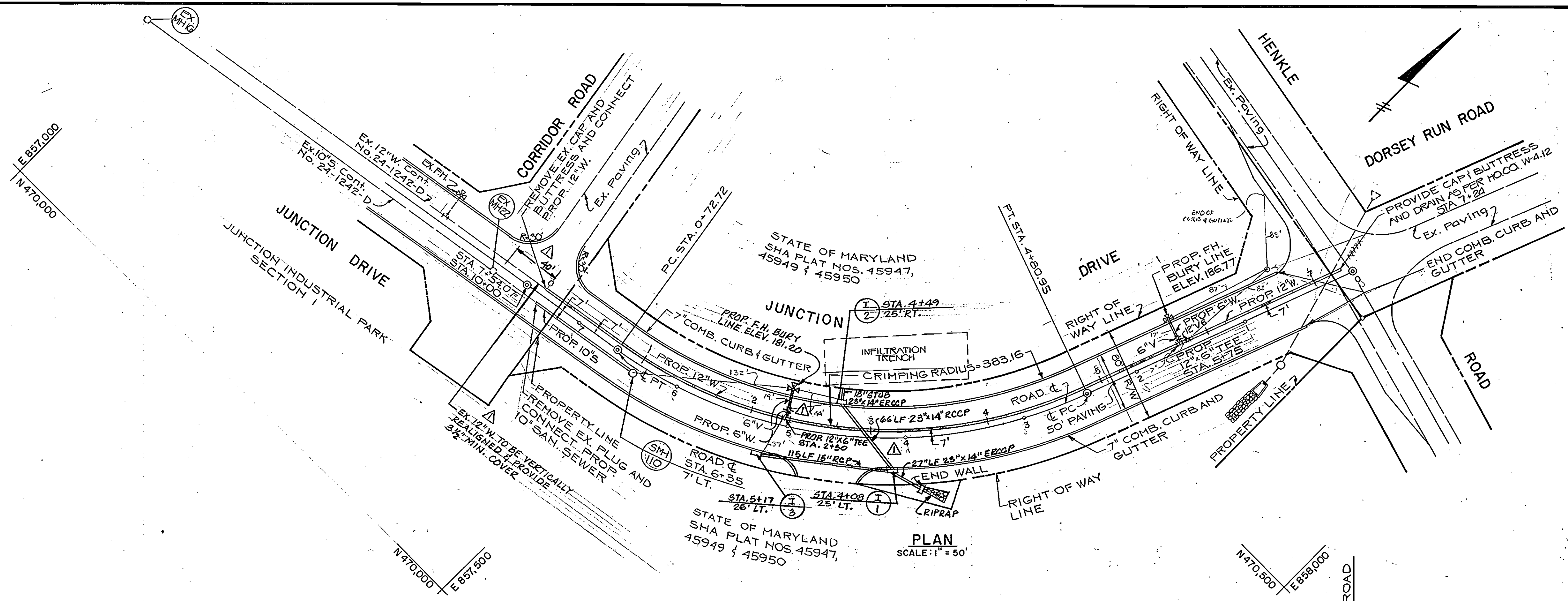
DES: P.D.	
DRN: G.G.	
CHK: P.D.	
DATE: 1/31/86	
BY: NO.	
REVISION	

PLAN AND PROFILE
WATER AND SEWER MAINS
STA. 38+35.53 TO STA. 45+30
CONTRACT NO. 24-1489-D

600' SCALE MAP NO. 48 BLOCK NO. 19

JUNCTION INDUSTRIAL PARK SECTION 2
PARCELS D,E,F,I THROUGH Q
ELECTION DISTRICT GILFORD NO. 6

SCALE AS SHOWN
SHEET 4 OF 5



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James M. Quinn</i> 12/22/80 Chief, Bureau of Utilities: <i>Michael A. Bunn</i> 12/14/80		HITNEY CONSULTING ENGINEERS 1850 York Road Timonium Md. 21093 301-252-6060 Chief, Bureau of Engineering: <i>William E. Bailey</i> 12-22-80 Chief Land Development Division: <i>William E. Bailey</i> 12-22-80		DES: ART DRN: GG CHK: PD DATE: 11-10-80		WATER AND SEWER MAIN EXTENSION PLAN AND PROFILE JUNCTION DRIVE CONTRACT NO. 24-1489-D GCO SCALE MAP NO. 48 BLOCK NO. 1D		JUNCTION INDUSTRIAL PARK SECTION 1 & 2 ELECTION DISTRICT GUILFORD NO. 6 OWNER: JUNCTION I LIMITED PARTNERSHIP 7240 PARKWAY DRIVE SUITE 170 HANOVER MD 21079		SCALE AS SHOWN SHEET 5 OF 5
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